

Amendments to the Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-15. (Canceled)

16. (Original) A heater assembly, comprising:

an inner member having a major surface;

a conductive coating disposed on at least a portion of the major surface;

at least two connections disposed onto, and in electrical contact with, the

conductive coating; and

an outer member having two end portions, wherein each end portion has a

cap disposed thereon, and each cap has a major inner member void defined

therethrough;

the inner member being positioned therethrough and spaced apart from the

outer member, and mechanically attached to and extending through the end cap

major inner member voids.

17. (Original) The heater assembly of claim 16, wherein the inner member
comprises a quartz glass tube.

18. (Original) The heater assembly of claim 17, wherein the outer member comprises a quartz glass tube.
19. (Original) The heater assembly of claim 16, wherein the end caps comprise frit glass.
20. (Original) The heater assembly of claim 16, wherein at least one end cap has a wire void defined therethrough.
21. (Original) The heater assembly of claim 16, wherein a vacuum is drawn in the space defined between the inner and outer members.
22. (Original) The heater assembly of claim 16, wherein the inner member is partially coated, thereby the heater assembly is capable of heating objects.
23. (Original) The heater assembly of claim 16, wherein the assemblage of the inner member, outer member, and end caps is sealed and fired in an annealing oven.

24. (Original) The heater assembly of claim 16, wherein the assemblage is sealed with solder frit.

25. (Original) The heater assembly of claim 16, wherein sealing the assemblage includes at least one vacuum void disposed in one of the end caps and at least one vacuum grommet to seal and maintain the vacuum at the vacuum void.

26. (Original) The heater assembly of claim 16, wherein the inner member and outer member are tubular and concentric.

27. (Original) The heater assembly of claim 16, wherein the inner member is non-tubular and the outer member is tubular.

28. (Original) The heater assembly of claim 16, wherein the heat produced by the heater assembly is at least partially controlled by a temperature sensor positioned in a fluid stream passing through an axially defined void of the inner member.

29. (Original) The heater assembly of claim 16, wherein the heat produced by the heater assembly is at least partially controlled by a temperature sensor on a wall of the outer member.

30. (Original) The heater assembly of claim 16, wherein the heat produced by the heater assembly is at least partially controlled by a flow switch in the path of the material that flows through an axially defined void of the inner member.

31. (New) The heater assembly of claim 16, wherein the coating comprises a doped metal oxide.

32. (New) The heater assembly of claim 31, wherein the coating comprises tin oxide.

33. (New) The heater assembly of claim 16, wherein the coating is disposed onto the major surface utilizing a rotating fixture.

34. (New) The heater assembly of claim 16, wherein the coating is disposed onto the major surface utilizing chemical vapor deposition.

35. (New) The heater assembly of claim 16, wherein the coating is disposed onto the major surface utilizing spray pyrolysis.

36. (New) The heater assembly of claim 16, wherein the coating has a nominal sheet resistance of about 25 ohms per square.

37. (New) The heater assembly of claim 16, wherein each connection comprises a compression fitting with wire mesh.

38. (New) The heater assembly of claim 16, wherein each connection comprises a conductive metal bus bar.

39. (New) The heater assembly of claim 38, wherein the bus bars comprise ceramic silver frit.

40. (New) The heater assembly of claim 38, wherein the bus bars comprise sprayed copper.

41. (New) The heater assembly of claim 40, wherein the sprayed copper is disposed on the conductive coating utilizing a heating head and mask apparatus.
42. (New) The heater assembly of claim 16, wherein the heat generated is directly proportional to the number of approximately equal resistance heating sections defined thereon.
43. (New) The heater assembly of claim 16, wherein the connections are in electrical communication with an external power source.